

Title (en)
HYDROGEN STORING METHOD AND UNIT

Title (de)
WASSERSTOFFSPEICHERUNGSVERFAHREN UND -EINHEIT

Title (fr)
PROCEDE ET UNITE DE STOCKAGE D'HYDROGENE

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Application
EP 08775682 A 20080306

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Abstract (en)
[origin: WO2008129182A2] The invention relates to a method for storing hydrogen and for producing hydrogen in which, for storing hydrogen, a unit (2) having: a cation donor, particularly of H⁺ ions, an anode (20), a cathode capable of storing atomic and/or molecular (22) hydrogen, a wall (21) permeable to ions, having an electrical non conducting but ionic conducting material, between the cathode and the cation donor, is subjected to an electric field allowing the formation, at least at the cathode and electrical non conducting material interface, of atomic and/or molecular hydrogen and storing said hydrogen at least in the cathode, and in which, to reconstitute hydrogen gas, the cathode is heated and/or depressed.

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